



PAJ 1976 bis 1993





Ihre Suchanfrage: Alle Felder: "@PN='5046649'"  
Datensatz 1 von 1



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(71) Anmelder:  
OKI ELECTRIC IND CO LTD

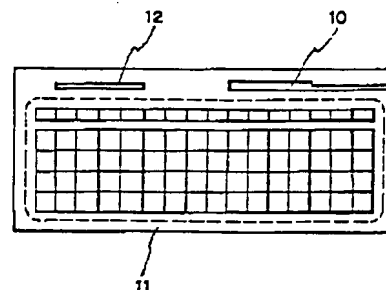
(72) Erfinder:  
MIZUGUCHI SATORU

(21) Anmeldeinformation:  
19910815 JP 03-228557

**KEYBOARD WITH CARD READER**

(57) Abstract:

**PURPOSE:** To obtain a keyboard with a card reader to output correctly the account information of every operator.  
**CONSTITUTION:** The keyboard is characterized as follows. A card inserting part 12 to which an ID card for the operator having been read by a card reader part 10 is inserted and a detecting means to detect the insertion of the card into the card reader part 12 are provided, and only when the ID card for the operator is read by the card reader part 10 and the card is judged to be the regular ID card for the operator, and in addition, it is detected that the card is inserted into the card inserting part 12 after that, a keyboard part 11 is made capable of being operated only while card is inserted.



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**PAJ Ergebnis****Ende**



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Ihre Suchanfrage: Alle Felder: "@PN='11031275'"  
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(51) int. Klassifikation: G07G001-00

(71) Anmelder:  
SANYO ELECTRIC CO LTD

(72) Erfinder:  
KOBAYASHI KATSUYA

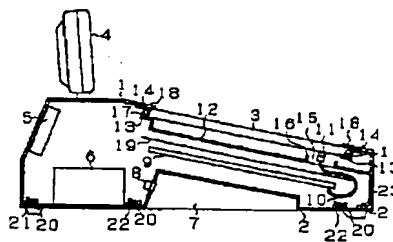
(21) Anmeldeinformation:  
19970714 JP 09-188563

## KEYBOARD

(57) Abstract:

**PROBLEM TO BE SOLVED:** To simplify a maintenance work or an assembling work at the time of manufacture while the angle of a display for an operation is adjustable.

**SOLUTION:** A display 4 for an operation is attached so as to be erected on the upper face of a case 1 in a state that the angle is adjustable back and forth. Then, engagement protrusions 20, 20,... are provided on the upper face of a bottom plate 2, and they are horizontally engaged with a case bending part 21 or an engagement piece 22, and the bottom plate 2 is fixed to the case 1 by screwing the front edge part of the bottom plate 2 into the case bending part 21 with a locking screw 23. At the time of maintenance, a keyboard is pushed forward a little from the front edge of the stand, the locking screw 23 is released, and the case 1 is pushed backward so that the both can be separated, and when the front part of the case is lifted up in that state, the work can be finished without turning the whole keyboard upside down.





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Ihre Suchanfrage: Alle Felder: "@PN='11031276'"  
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(19) **JAPANESE PATENT OFFICE**

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(51) int. Klassifikation: G07G001-00

(71) Anmelder:  
SANYO ELECTRIC CO LTD

(72) Erfinder:  
KOBAYASHI KATSUYA

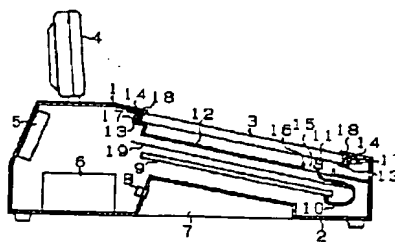
(21) Anmeldeinformation:  
19970714 JP 09-188561

## KEYBOARD

(57) Abstract:

**PROBLEM TO BE SOLVED:** To exchange a keyboard unit from the surface side while ensuring the drop preventing performance of a keyboard.

**SOLUTION:** A keyboard unit 3 in which a water proof sheet is stuck to its upper face is attached from the upper side to an opening part provided on the upper face of a case 1 inclined so that the front side can be made lower. Then, a liquid tray 12 is integrally provided with the case at the lower side of the keyboard unit 3 in the case so that even when liquid spilled to the keyboard intrudes inside from a clearance between the keyboard unit 3 and the case 1, the liquid can be remained without being dropped. Also, the part of the liquid tray 12 covered with the keyboard unit 3 is provided with a through-hole 15 for allowing a connection cable 10 to pass, and a water wall 16 is provided like a bank in the surrounding of the through-hole 15. Moreover, a water proof sheet 19 is provided between the liquid tray 12 and a control circuit substrate 9, and even when liquid is dropped beyond the water wall 16, it can be prevented from being dropped to the control circuit substrate 9.





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(71) Anmelder:  
SANYO ELECTRIC CO LTD

(72) Erfinder:  
KOBAYASHI KATSUYA

(21) Anmeldeinformation:  
19970714 JP 09-188562

## KEYBOARD

(57) Abstract:

PROBLEM TO BE SOLVED: To exchange a keyboard unit from the surface side while ensuring the drop preventing performance of a keyboard.  
SOLUTION: A keyboard unit 3 whose upper face a water proof sheet is adhered to is mounted from the upper side on an opening provided on the upper face of a case 1 inclined so that the front side can be made lower. Then, a liquid tray 12 is integrally provided with the case at the lower side of the keyboard unit 3 in the case so that even when liquid such as juice spilled to the keyboard intrudes inside from a clearance between the keyboard unit 3 and the case 1, the liquid can be remained without being dropped. Also, a through-hole 15 for allowing a connection cable 10 to pass is provided at the rear edge part of the liquid tray, and a water wall 16 is provided like a bank in the surrounding of the through-hole 15. Moreover, a drain ditch 19 is horizontally provided at the rear side of the through-hole 15 of the case 1 so that liquid intruding from the upper part can be prevented from being dropped through the cable through-hole 15.

